



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/314,034	05/18/1999	MARK F. SCHULZ	54565USA4A	4599

7590

10/01/2002

SCOTT A BARDELL
OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
P O BOX 33427
ST PAUL, MN 551333427

EXAMINER

GRENDZYNSKI, MICHAEL E

ART UNIT	PAPER NUMBER
----------	--------------

1774

DATE MAILED: 10/01/2002

17

Please find below and/or attached an Office communication concerning this application or proceeding.

AS-17

Office Action Summary	Application N	Applicant(s)	
	09/314,034	SCHULZ ET AL.	
	Examiner	Art Unit	
	Michael E. Grendzynski	1774	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 July 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 22 and 25-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 22 and 25-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. Claim 22 remains rejected under 35 U.S.C. 103(a) as being unpatentable over Sato (US 6096418) in view of Shaw-Klein (US 6110601) and the Tyvek® product bulletin for the reasons of record. Applicants argue that the combination of the above-mentioned references would not result in the claimed invention because applicants claim only water-soluble salts and excludes such salts as aluminum chloride. Claim 1, however, lists aluminum as one of its multivalent salts. Aluminum chloride, moreover, is water-soluble. Consequently, the rejection is maintained.
2. Claims 22, 25-29 and 32 remain rejected under 35 USC 103(a) as being unpatentable over Kovacs (US 6206517) in view of Shaw-Klein (6110601) for the reasons of record. Applicants argue that the combination of Kovacs and Shaw Klein would not result in the claimed invention because applicants do not claim, e.g., aluminum chloride, as disclosed in Shaw-Klein. This argument is not found persuasive because claim 1 includes aluminum as one of its multivalent metal compounds (and the specification discloses chlorine as an anion); consequently, the aluminum chloride compound of Shaw Klein reads on the instant invention. The rejection is maintained.
3. For similar reasons, claims 30 and 31 remain rejected under 35 USC 103(a) as being unpatentable over Kovacs (US 6206517) and Shaw-Klein in view of Hasegawa (US 4954395) for the reasons of record.
4. Claims 22, 25, 26, 28, 29 and 32 remain rejected under 35 USC 103(a) as being unpatentable over Wallace (US 4889765) in view of Shaw-Klein (US 6110601) for the reasons of record. Applicants argue that the combination of Wallace and Shaw Klein would not result in the claimed invention because applicants do not claim, e.g., aluminum chloride as disclosed in Shaw-Klein. This argument is not found persuasive because claim 1 includes aluminum as one of its multivalent metal compounds; consequently,

Art Unit: 1774

the aluminum chloride compound of Shaw Klein reads on the instant invention. The rejection is maintained.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael E. Grendzynski whose telephone number is 703-305-0593. The examiner can normally be reached on weekdays, from 9:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 703-308-0449. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-5408 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2351.

Michael E. Grendzynski
Assistant Examiner
September 28, 2002



BRUCE H. HESS
PRIMARY EXAMINER